EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	9	"10/612057" and curry.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/03 10:40
S2	56	(MRC "mixed raster") same ((selector edge) near5 plane)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 16:44
S3	0	S2 same bianr$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 14:08
S4	1498	(edge near5 detect$3) with segment$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 14:36
S5	5	(MRC "mixed raster") same ((selector mask) near5 plane) same (edge with segment$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 14:15
S6	262	S4 same (threshold$3 binar$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 14:34
S7	163	S4 with (threshold$3 binar$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 14:34
S8	154	S4 with (threshold$3 binari$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 14:35
S9	20	S4 with (binari$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 14:35

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S10	55	(edge near5 detect$3) with (direction with strength)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 14:40
S11	7	S10 same segment$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 14:43
S12	3635	(edge with direction with (strength magnitude))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 14:42
S13	6	S12 same segmentation	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 14:43
S14	2	EP-712094-$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/27 16:12
S15	16	PDL with "image pixel"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 12:19
S16	21	(MRC "mixed raster") same (segment$5 with "text" with "image")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 13:05
S17	44	(MRC "mixed raster") and (segment$5 with "text" with "image")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 14:08
S18	19	(("5583659") or ("6400844") or ("6324305") or ("4849914") or ("5515452") or ("5745596") or ("5900953") or ("6058214") or ("6343154") or ("6633670")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/30 14:32
S19	21	(MRC "mixed raster") and (segmentation with edge)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 14:09

S20	8	(MRC "mixed raster") and ((selector mask) near5 plane) same (edge with segment$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 14:16
S21	41	(MRC "mixed raster") and ((selector mask) near5 plane) same segmentation	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 14:17
S22	83	(MRC "mixed raster") same segmentation	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 14:17
S23	64	(MRC "mixed raster") with segmentation	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 14:17
S24	1617	("3x3" "3 x 3" "3 by 3")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 14:40
S25	2014	((segment$5 separat$3) with foreground with background)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 11:08
S26	6	S24 and S25	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 14:41
S27	94	S25 same (window neighborhood)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 15:23
S28	33	S25 with (window neighborhood)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 15:10
S29	3	("6701009").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/30 15:11

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S30	85	S25 with edge	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 15:23
S31	15	S25 with (edge near5 detect$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 15:23
S32	42	gradient with white with background	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 09:46
S33	194	((determin$5 designat$3 assign$3) with (text graphic foreground) with background) same (window bblock neighborhood)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 11:14
S34	7	((determin$5 designat$3 assign$3) with (text graphic foreground) with background) with (neighborhood)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 11:10
S35	27	((determin$5 designat$3 assign$3) with (text graphic foreground) with background) same (neighborhood)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 11:14
S36	10	PDL with (pixel near5 (type class category tag))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 12:22
S37	247	PDL with (text with image)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 12:22
S38	0	(PDL with tag with text with image)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 12:22
S39	0	S37 with tag	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 12:23

S40	3	S37 same tag	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 12:23
S41	30	S37 with (tag type kind categor$4 type class)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 12:59
S42	35	S37 with raster	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 12:56
S43	39	(PDL with conver$4 with raster$7) same (text with image with tag type kind categor$4 type class)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 13:00
S44	9	"10/612,250" and curry.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/31 16:25
S45	1	(replac$3 substitut$3 chang$3) with ("by" "with") with ((filter$3 transform$5 correct$3 adjust$3) near3 (value result data signal))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 14:22
S46	85202	(replac$3 substitut$3 chang$3) with ((filter$3 transform$5 correct$3 adjust$3) near3 (value result data signal))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 14:23
S47	18142	(replac$3 substitut$3 chang$3) with (filter$3 near3 (value result data signal))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 14:23
S48	1267	(replac$3 substitut$3 chang$3) with (select$2 specific designated chosen) with (filter$3 near3 (value result data signal))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 14:24
S49	460	((replac$3 substitut$3 chang$3) near5 (select$2 specific designated chosen)) with (filter$3 near3 (value result data signal))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 14:25

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S50	44	((replac$3 substitut$3) near3 (select$2 specific designated chosen)) with (filter$3 near3 (value result data signal))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 15:30
S51	40	((replac$3 substitut$3) near3 (noise)) with (filter$3 near3 (value result data signal))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 14:35
S52	367	(partition$3 near5 (mask select$3)) same (filter$3 smooth$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 15:32
S53	217	(partition$3 near5 (mask select$3)) with (filter$3 smooth$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 15:32
S54	206	(partition$3 near5 (mask select$3)) with (filter$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 15:32
S55	31	(partition$3 near5 (mask)) with (filter$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 15:34
S56	6	(partition$3 near5 selector) with (filter$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 15:35
S57	0	(partition$3 near5 (edge adj1 (map image))) with (filter$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 10:48
S58	6	((divid$3 partition$3) near5 (edge adj1 (map image))) with (filter$3 smooth$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/01 15:36
S59	1308	((gradient edge) adj1 (map image)) with (filter$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 10:48

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S60	191	((gradient) adj1 (map image)) with (filter$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 11:01
S61	17	((gradient) adj1 (map)) with (filter$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 10:49
S62	33	((gradient) adj1 (image)) with (filtered)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 12:34
S63	32	((gradient) adj1 (image map)) with (partition$3 divid$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 14:17
S64	3	((gradient) adj1 (image map)) with (partition$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 12:34
S65	2323	(direction$2 near3 (image map)) with (partition$3 divid$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 14:14
S66	17	(direction adj1 map) with (partition$3 divid$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 14:14
S67	10	(gradient with (edge adj1 (image map))) with (partition$3 divid$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 14:18
S68	51	((direction orientation gradient) with (edge adj1 (image map))) with (partition$3 divid$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 14:43
S69	2159	image with ((bias$3 substract$3 offset$3 normaliz$3) near5 (mean average constant))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 15:20

S70	905	image with (bias$3 near5 (mean average constant))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 15:21
S71	66	image with (bias$3 adj3(mean average))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 16:14
S72	17	(difference adj1 image) with partition$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 15:22
S73	7	((gradient edge) adj1 image) with (subtract$3 adj3(mean average constant))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 17:09
S74	8	((gradient edge) adj1 image) with (subtract$3 near5 (mean average constant))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 16:20
S75	10	((gradient edge) adj1 (image map)) with ((bias$3 subtract$3) near5 (mean average constant offset))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 16:24
S76	21	(gray$1scale gray$1level) with ((bias$3 subtract$3) near5 (mean average constant offset))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 16:24
S77	124	((gradient edge) near3 (image map)) same ((bias$3 subtract$3) near5 (mean average constant offset))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 17:10
S78	27	((gradient edge) near3 (image map)) with ((bias$3 subtract$3) near5 (mean average constant offset))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 16:25
S79	6534	(MRC "mixed raster")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 16:45

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S80	117	(MRC "mixed raster") same compression	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 16:49
S83	2082	((gradient edge)) same ((bias$3 subtract$3) near5 (mean average constant offset))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 17:10
S84	153	((gradient)) with ((bias$3 subtract$3) near5 (mean average constant offset))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 17:11
S85	57	((gradient)) with ((subtract$3) near5 (mean average bias offset))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/02 17:11
S86	1792	((signal value gradient mask) near5 ("1" "-1")) with weak	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/03 10:51
S87	20	S86 and (MRC "mixed raster")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/03 10:47
S88	20709	(filter$3 LPF HPF smooth$3 sharpen$3) with (4-pass four$1pass (("4" four) near5 (pass$2 iterat$3)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/03 10:56
S89	1697	(filter$3 LPF HPF smooth$3 sharpen$3) with (4-pass four$1pass (("4" four) adj1 (pass$2 iterat$3)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/03 10:56
S90	203	S88 and JPEG	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/03 10:58
S91	8	S88 same JPEG	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/03 10:57

S92	5765	382/164,173,176,180;358/1.1,1.18. ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/03 12:21
S93	51	S92 and (MRC "mixed raster")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/03 12:22

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1 High dynamic range imaging

Paul Debevec, Erik Reinhard, Greg Ward, Sumanta Pattanaik
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press

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Current display devices can display only a limited range of contrast and colors, which is
one of the main reasons that most image acquisition, processing, and display techniques
use no more than eight bits per color channel. This course outlines recent advances in
high-dynamic-range imaging, from capture to display, that remove this restriction,
thereby enabling images to represent the color gamut and dynamic range of the original
scene rather than the limited subspace imposed by current monitor ...

2 GPGPU: general purpose computation on graphics hardware

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff
Woolley, Aaron Lefohn
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The graphics processor (GPU) on today's commodity video cards has evolved into an
extremely powerful and flexible processor. The latest graphics architectures provide
tremendous memory bandwidth and computational horsepower, with fully programmable
vertex and pixel processing units that support vector operations up to full IEEE floating
point precision. High level languages have emerged for graphics hardware, making this
computational power accessible. Architecturally, GPUs are highly parallel s ...

3 Picture Processing by Computer

Azriel Rosenfeld
September 1969 **ACM Computing Surveys (CSUR)**, Volume 1 Issue 3
Publisher: ACM Press

Full text available: ▨ pdf(2.69 MB)   Additional Information: full citation, references, citings, index terms

4 Projectors: advanced graphics and vision techniques

Ramesh Raskar
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5 The elements of nature: interactive and realistic techniques

Oliver Deusen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
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This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives on the difficult task of photorealistic modeling, rendering, and animation of natural phenomena. The course offers a nice balance of the latest interactive graphics hardware-based simulation techniques and the latest physics-based simulation techni ...

6 On the power of the frame buffer

Alain Fournier, Donald Fussell
April 1988 **ACM Transactions on Graphics (TOG)**, Volume 7 Issue 2
Publisher: ACM Press

Full text available: pdf(1.95 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Raster graphics displays are almost always refreshed out of a frame buffer in which a digital representation of the currently visible image is kept. The availability of the frame buffer as a two-dimensional memory array representing the displayable area in a screen coordinate system has motivated the development of algorithms that take advantage of this memory for more than just picture storage. The classic example of such an algorithm is the depth buffer algorithm for determining visible s ...

7 Special issue on spatial database systems: Management of multidimensional discrete data

Peter Baumann
October 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 3 Issue 4
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(2.30 MB)   Additional Information: full citation, abstract, references, citings

Spatial database management involves two main categories of data: vector and raster data. The former has received a lot of in-depth investigation; the latter still lacks a sound framework. Current DBMSs either regard raster data as pure byte sequences where the DBMS has no knowledge about the underlying semantics, or they do not complement array structures with storage mechanisms suitable for huge arrays, or they are designed as specialized systems with sophisticated imaging functionality, but n ...

Keywords: Multimedia database systems, image database systems, spatial index, tiling

8 Editing and authoring: User-directed analysis of scanned images

Steven J. Simske, Jordi Arnabat
November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**
Publisher: ACM Press

Full text available: pdf(3.36 MB)   Additional Information: full citation, abstract, references, citings, index terms

Digital capture (scanning in all its forms, and digital photography/video recording), in providing virtually free temporary memory of captured information, allows users to "over-gather" information during capture, and then to discard unwanted material later. For cameras and video recorders, such editing largely consists of discarding images or frames in their entirety. For scanners (and high-resolution camera/video), such editing benefits from a preview capability that provides quick and reliabl ...

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Choi, H.; Baraniuk, R.G.;
Image Processing, IEEE Transactions on
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